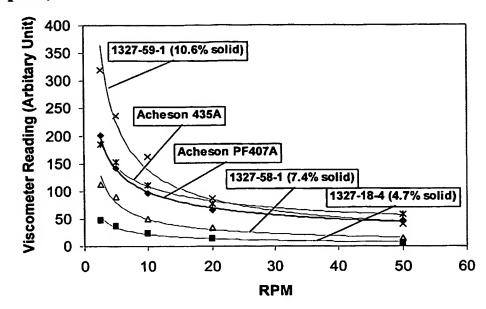
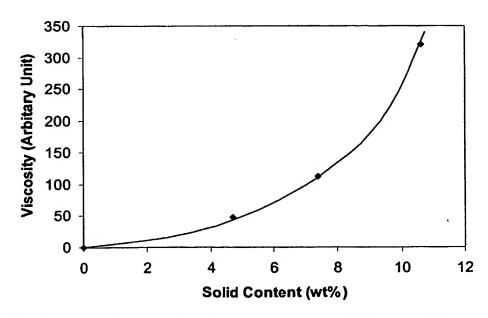


Figure 2 Relative viscosity vs shear (Brookfield spindle speed)

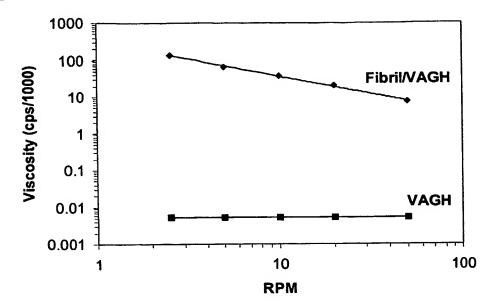


(a) Comparison of commercial (Acheson) and fibril based inks

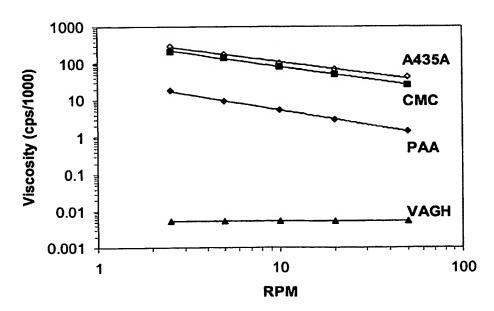


(b) Relative viscosity vs total solid content for 1:2 fibrils to binder

Figure 3 Binder viscosity



(a) Viscosity profile from VAGH binder alone and at the same level in fibril ink



(b) Binder (3%, no fibrils) viscosity in comparison with Acheson A435A ink

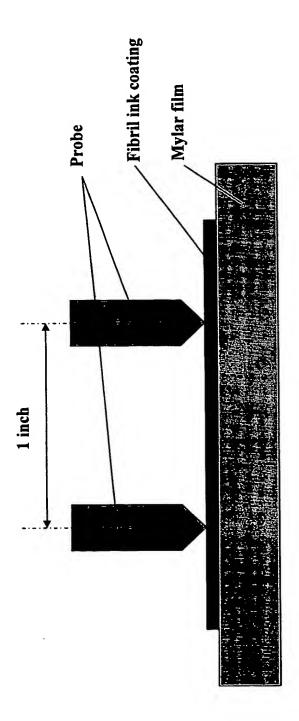
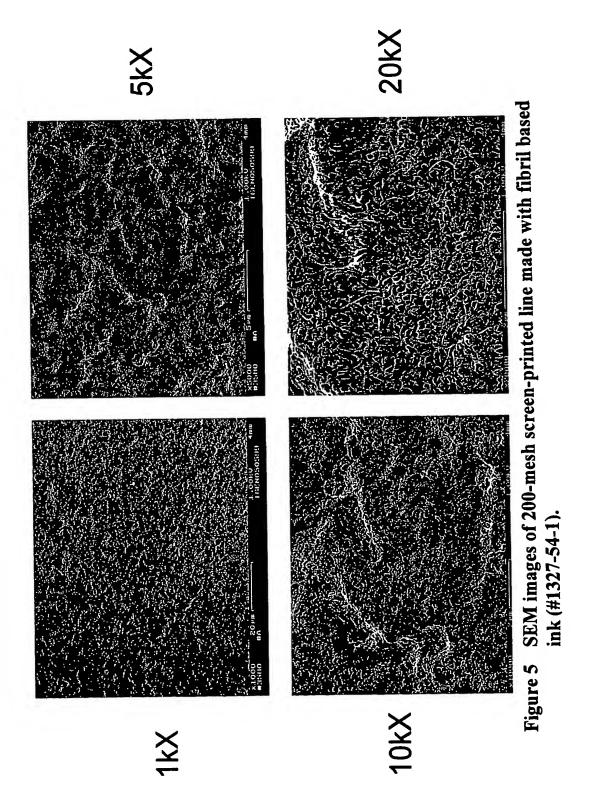


Figure 4 Two-point probe for measuring coating surface resistivity



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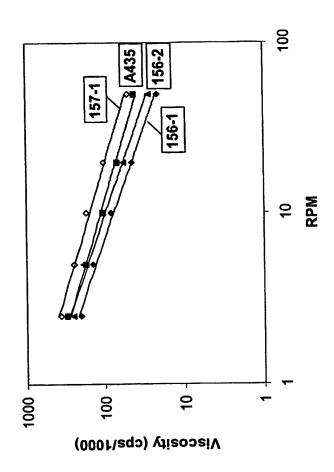


Figure 6 Viscosity profile of fibril inks with CAB binder versus commercially available carbon inks

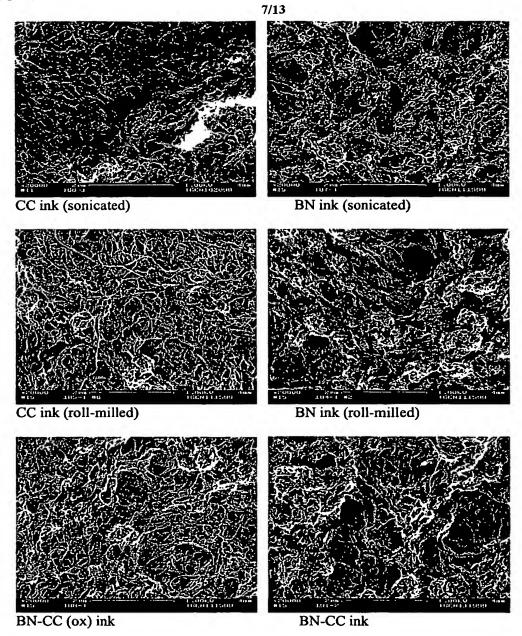


Figure 7 SEM images of fibril ink coating surface morphologies.

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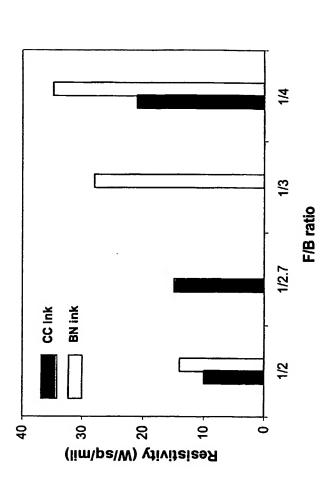


Figure 8 Coating resistivity as a function of Fibril/Binder ratio for BN and CC fibril ink.

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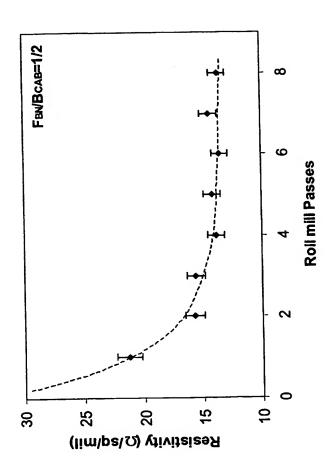


Figure 9 Change in BN ink resistivity with the increase of roll mill passes.

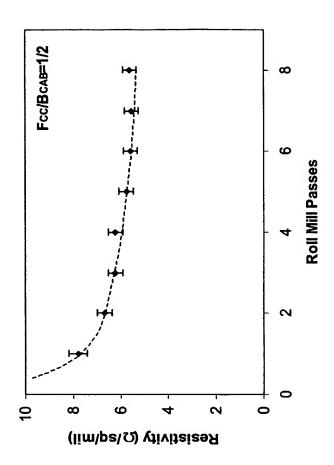
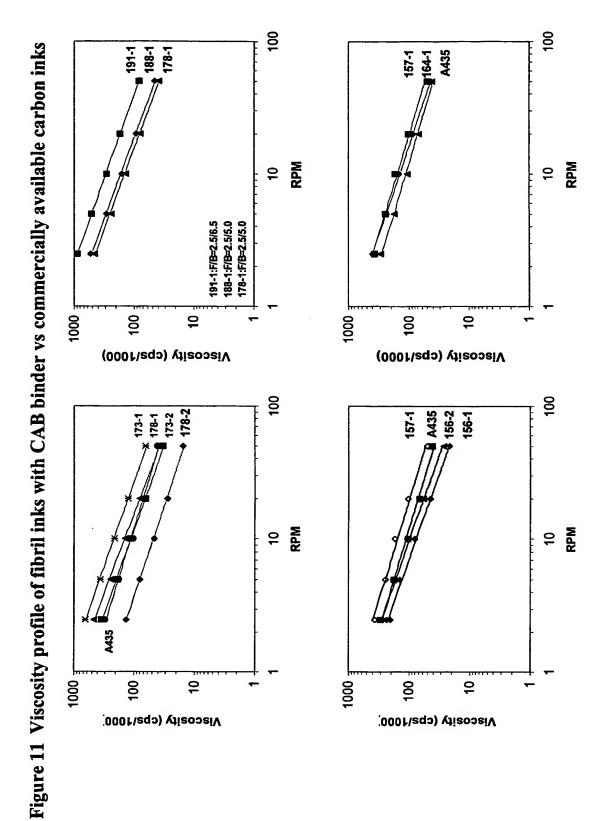


Figure 10 Change in CC ink resistivity with the increase of roll mill passes.

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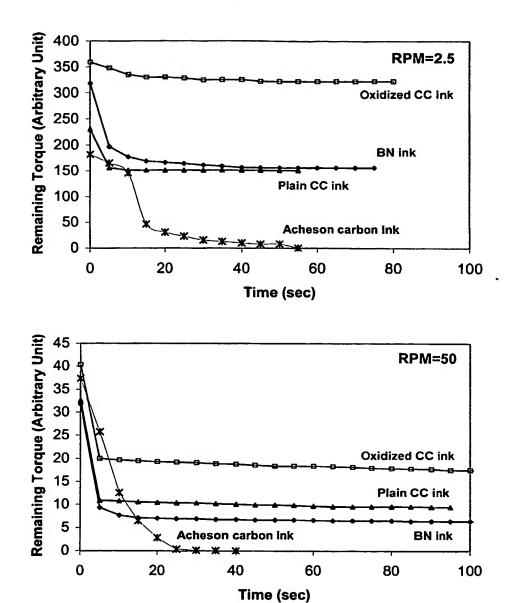


Figure 12 Changes in remaining torque after shutting down the spindle motor of Brookfield viscometer.

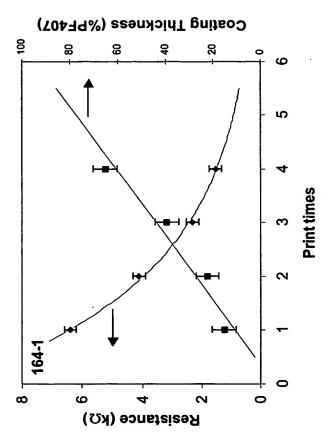


Figure 13 Relationship of screen printing passes and coating thickness for fibril ink.